|   |  |           |                   |                     |                         |              |          |          |          |            |          |                             |          | 10/729,990 |                  |         |                 |  |          |                         |     |          | MATTAR, WADE M. |          |          |            |                    |          |           |                    |   |  |
|---|--|-----------|-------------------|---------------------|-------------------------|--------------|----------|----------|----------|------------|----------|-----------------------------|----------|------------|------------------|---------|-----------------|--|----------|-------------------------|-----|----------|-----------------|----------|----------|------------|--------------------|----------|-----------|--------------------|---|--|
|   |  |           |                   |                     |                         |              |          |          |          |            |          |                             |          | Examiner   |                  |         |                 |  |          |                         |     |          | Art Unit        |          |          |            |                    |          |           |                    |   |  |
|   | 10<br>  Ex                                       |           |                   |                     |                         |              |          |          |          |            |          |                             |          |            | Robert R. Raevis |         |                 |  |          |                         |     |          |                 | 2856     |          |            |                    |          |           |                    |   |  |
|   |  |           |                   |                     |                         |              |          |          |          |            |          |                             |          |            |                  | ז ר     |                 | -  |          |                         |     |          |                 | _        |          |            |                    | _        |           |                    |   |  |
|   | √ Rejected – (T                                  |           |                   |                     |                         |              |          |          |          |            |          | Through numers<br>Canc Iled |          |            |                  | l)      |                 | N  | Non-Ele  |                         | ect | cted     |                 | A        | Appeal   |            |                    |          |           |                    |   |  |
|   |  | = Allowed |                   |                     |                         |              |          |          |          | + Restrict |          |                             |          | ted        |                  |         | ī               | Interference C                               |          |                         | 0   | Objected |                 |          |          |            |                    |          |           |                    |   |  |
|   | Clai   | m         | !                 |                     |                         |              | ) a t c  |          | LL_      |            |          | Claim                       |          |            |                  |         | J (<br>Date     |  |          | _                       | Cla |          | in              | i        | Date     |            |                    | ᆜ<br>—   |           | <b>ז</b>           |   |  |
|   |  |           | 6                 | Date 2              |                         |              |          |          |          |            |          |                             |          |            | $\overline{}$    | Т       |                 | <u>,                                    </u> |          |                         |     | CIÈ      |                 | $\top$   |          |            |                    | $\neg$   | 7-        | -                  |   |  |
|   | Final  | Original  | 5                 | 10/5                |                         |              |          |          |          |            |          | Final                       | Original |            |                  |         |                 |  |          |                         |     | Final    | Original        |          |          |            |                    |          |           |                    |   |  |
|   | <del> </del>                                     |           | !                 | 1                   | 1                       | $\dashv$     | $\dashv$ |          |          |            | -        |                             | 51       | $\dashv$   |                  |         | ╁╌┨             | -  | -        | ┼┤                      |     |          | 101             | _        | +-       | -          | $\vdash$           | +        | -         |                    |   |  |
| į |  | 2         | Ĭ                 | 7                   | 1                       | 一            |          |          |          |            | $\dashv$ |                             | 52       |            | +                | +       | 1-1             | $\dashv$                                     | $\dashv$ | +                       | 1   |          | 102             |          | ╁        |            |                    | +        | 十         | ╁                  | 1 |  |
|   |  |           | 젤                 | 7                   |                         |              |          |          |          |            |          |                             | 53       |            |                  |         |                 | $\Box$                                       |          |                         |     |          | 103             |          |          |            |                    |          |           |                    | ] |  |
|   |  |           | 셐                 | 4                   |                         | -1           | _        | _        |          |            |          | ļ                           | 54       |            | $\perp$          | +       |                 | _  |          | $\perp \downarrow$      |     |          | 104             |          | 1        | lacksquare |                    | _        |           | 1                  |   |  |
|   |  | 5         | <u> </u>          | H                   | $\dashv$                |              | $\dashv$ | $\dashv$ | _        | $\vdash$   | $\dashv$ | -                           | 55<br>56 | -          |                  | +       | H               | $\dashv$                                     | +        | ┼┤                      |     |          | 105<br>106      | $\vdash$ | +        |            |                    | +        | ╬         | +                  | - |  |
|   |  | 7         | H                 | H                   | $\dashv$                |              | $\dashv$ |          |          |            |          | }                           | 57       |            | $\dashv$         | +       |                 | 1  | $\top$   | +                       |     |          | 107             | $\dashv$ | +        | <b>†</b>   | <del>  </del>      | +        | +         | +                  | 1 |  |
|   |  | 8         |                   |                     |                         |              |          |          |          |            |          |                             | 58       |            |                  |         |                 |  |          |                         |     |          | 108             |          |          |            |                    |          |           |                    | ] |  |
|   |  | 9         | $\coprod$         | $igcup_{\parallel}$ | _                       |              | $\dashv$ |          |          |            | 4        |                             | 59       | _          | +                | $\perp$ |                 |  | -        | $\sqcup$                | ļ   |          | 109             | _ _      | 4_       | <u> </u>   |                    | 4        | _         | ╄-                 |   |  |
|   | ┝╾┼  | 10        | +                 | ╂┤                  | -                       | -            | $\dashv$ |          |          |            | $\dashv$ |                             | 60<br>61 | -          | +                | ┿       | $\vdash \vdash$ |  |          | H                       | ł   |          | 110             |          | +-       | -          | $\vdash \vdash$    | +        | +         | +-                 | - |  |
|   |  | 12        | Ħ                 | Ħ                   |                         | 7            | $\dashv$ |          |          | $\dashv$   | $\dashv$ |                             | 62       | -          | $\top$           | +       | $\vdash$        | _  |          | ${}^{\dag}$             | ł   |          | 112             |          | +-       |            | H                  | $\dashv$ | +         | +                  | 1 |  |
|   |  | 13        | П                 | П                   |                         |              |          |          |          |            |          |                             | 63       |            |                  |         |                 |  |          |                         |     |          | 113             |          |          |            |                    |          |           |                    | ] |  |
|   | $\vdash \downarrow$                              | 14        | <u> </u>          | <u>1</u>            | _                       |              | _        | $\sqcup$ |          | $\sqcup$   | 4        | <u> </u>                    | 64       |            | _                | _       | Ш               | $\dashv$                                     | $\perp$  | $\downarrow \downarrow$ |     |          | 114             |          |          | ļ          |                    | 4        | _         | 1                  | 1 |  |
|   | $\vdash$   | 15<br>16  | 쉬                 | 싞                   |                         | +            | $\dashv$ | -        |          |            | $\dashv$ |                             | 65<br>66 |            | +                | +       | Н               | $\dashv$                                     |          | ╁╼┨                     |     |          | 115<br>116      |          | ┼        |            |                    | -+       | ╬         | +                  |   |  |
|   |  | 17        | J                 | 乜                   | +                       | $\dashv$     | $\dashv$ |          | _        | $\vdash$   | -        | -                           | 67       | +          | +                | +       | H               | 寸  | $\dashv$ | +                       |     |          | 117             | -        | +-       | -          | $\vdash$           | +        | +         | +                  | 1 |  |
|   |  | 18        | 7                 | M                   |                         |              |          |          |          |            |          |                             | 68       |            |                  |         |                 | $\Box$                                       |          |                         |     |          | 118             |          |          |            |                    | 士        |           |                    | j |  |
|   |  | 19        | 1                 | 1                   |                         | _            |          |          |          |            | _        | ļ                           | 69       |            |                  |         |                 |  |          |                         |     |          | 119             | $\perp$  |          |            |                    | 1        |           |                    | ] |  |
|   | -  | 20<br>21  | ╂╢                | H                   | $\dashv$                | $\dashv$     | -        |          | -        |            | $\dashv$ |                             | 70<br>71 | -          | ┵                | +-      | ┦╌┤             |  |          | +                       |     |          | 120<br>121      | -        | -        | -          | $\left  - \right $ | $\dashv$ | +         | +-                 |   |  |
|   |  | 22        | $\dagger \dagger$ | H                   | ┪                       | -            | $\dashv$ | $\dashv$ | _        |            | $\dashv$ |                             | 72       | $\dashv$   | ╁                | +       | $\Box$          | -  |          | ++                      | ł   |          | 122             |          | +        | -          | $\vdash$           | $\dashv$ | +         | +                  | 1 |  |
|   |  | 23        | П                 | П                   |                         |              |          |          |          |            |          |                             | 73       |            |                  |         |                 |  |          |                         | İ   |          | 123             |          |          |            |                    |          |           |                    | ] |  |
|   |  | 24        | $\Box$            | Ц                   | _                       |              | _        |          |          |            |          |                             | 74       |            | _ _              | 4       |                 |  |          | Ц                       |     |          | 124             |          |          | ļ          |                    | _        | 4         | ╀-                 | ] |  |
|   | <del></del>                                      | 25<br>26  | H                 | ₩                   | $\dashv$                | ┩            | $\dashv$ |          |          |            |          | <u> </u>                    | 75<br>76 | -          | - -              | -       | ╂╼╂             |  | -        | $\dashv$                | -   |          | 125<br>126      | _        | -        |            | $\vdash \vdash$    | $\dashv$ | +         | -                  | } |  |
|   | -  | _         | -                 | ┧                   | $\dashv$                | ┪            | $\dashv$ |          | -        | č-         | $\dashv$ | $\vdash$                    | 77       | $\dashv$   | +                |         | ╁┈╁             | -  |          | H                       |     |          | 127             | -        | ╅        | ╁╾         | $\vdash$           | -        | 十         | +                  | 1 |  |
|   |  | 28        | V                 | J                   |                         |              |          |          |          |            |          |                             | 78       |            |                  |         |                 | 士  |          | 口                       |     |          | 128             |          |          |            |                    |          | j         |                    | j |  |
|   |  |           | <u>:</u>          | W                   |                         | $\downarrow$ |          |          |          |            |          |                             | 79       |            | $\perp$          | _       |                 |  | _        | Ш                       |     |          | 129             |          |          |            |                    | $\perp$  | $\bot$    | $oldsymbol{\perp}$ | ] |  |
|   |  | 30<br>31  | +                 | ╂                   | $\dashv$                | -            |          |          | _        | $\dashv$   | $\dashv$ | -                           | 80<br>81 | -          |                  |         |                 | -+   | -        | ┼┤                      | ł   |          | 130<br>131      |          | +-       |            | $\vdash$           | +        | +         | +                  | { |  |
| i |  | 32        | H                 | #                   | 十                       | +            |          |          | _        | $\dashv$   | $\dashv$ |                             | 82       | -          |                  | +-      | $\vdash$        | -+   | +-       | $\forall$               | }   |          | 132             |          | +-       | ╁          | $\vdash$           | 十        | $\dagger$ | ╁╌                 | 1 |  |
|   |  | 33        | $\coprod$         | 1                   |                         |              |          |          |          |            |          |                             | 83       |            |                  |         |                 |  |          |                         | Ì   |          | 133             |          |          |            |                    |          |           |                    | 1 |  |
|   |  | 34        | $\coprod$         | 41                  | 4                       |              | _        |          |          | _          |          |                             | 84       | _          | $\perp$          | ╄       |                 | _  | 4        | Ш                       |     |          | 134             |          | _        |            |                    | _        | 1         | $\perp$            |   |  |
|   |  |           | K                 |                     | $\dashv$                | $\dashv$     | 4        |          |          |            |          | -                           | 85<br>86 | +          | +                | +-      | $\vdash$        | -  |          | ┼┤                      | -   |          | 135<br>136      | -        |          |            |                    | -        |           | -                  |   |  |
|   |  | 37        | <b>Y</b>          | <u> </u>            | $\dashv$                | 7            |          |          | _        |            | $\dashv$ | -                           | 87       | $\dashv$   | +                | ┿       | $\vdash$        | -  | +        | +                       |     |          | 137             |          | ╅╌       | -          | $\vdash$           | ╅        | ┿         | +                  | 1 |  |
|   |  | 38        |                   |                     |                         |              |          |          |          |            |          |                             | 88       |            |                  |         |                 |  |          |                         |     |          | 138             |          |          |            |                    |          |           |                    | ] |  |
|   |  | 39        |                   |                     |                         |              |          |          |          |            |          |                             | 89       | 1          | _                |         | Ш               |  |          | $\square$               |     |          | 139             |          |          |            |                    | $\Box$   |           |                    | ] |  |
|   |  | 40<br>41  |                   | -                   | $\dashv$                | -            | $\dashv$ | -        | -        |            |          |                             | 90<br>91 |            | +                | +       | $\vdash$        | -  |          | $\dashv$                | ŀ   |          | 140             | +        | +-       | $\vdash$   | $\vdash \vdash$    | $\dashv$ | -         | +-                 | { |  |
|   |  | 41        | $\dashv$          | -                   | $\dashv$                | +            |          | $\dashv$ | $\dashv$ | +          | $\dashv$ | -                           | 92       | $\dashv$   |                  | +       | +               | $\dashv$                                     | +        | +                       | }   |          | 142             |          | +-       | $\vdash$   | $\vdash \vdash$    | $\dashv$ | +         | +-                 | 1 |  |
|   |  | 43        |                   |                     |                         |              |          |          |          |            |          |                             | 93       |            |                  |         |                 |  |          |                         | l   |          | 143             |          |          |            |                    | 士        |           |                    | ] |  |
|   |  | 44        | _                 | $\dashv$            | $\overline{\downarrow}$ | $\dashv$     | _        |          | _        |            |          | -                           | 94       | $\bot$     | 1                | 1       |                 | $\dashv$                                     |          | $\Box$                  |     |          | 144             |          | <u> </u> |            |                    | $\perp$  | 1         | -                  | 1 |  |
|   | -  | 45<br>48  |                   | -                   | +                       | -            | }        | $\dashv$ | $\dashv$ | $\dashv$   | $\dashv$ | <b>}</b>                    | 95<br>96 | $\dashv$   | +                | +       | ╁               | _  | _        | ╫┤                      | 1   |          | 145<br>146      |          | +-       |            |                    | +        | +         | +                  | 1 |  |
|   | <del>                                     </del> | 40        | -                 | $\dashv$            | +                       | +            | -        | -        |          | $\vdash$   | $\dashv$ |                             | 97       |            | -                |         | $\vdash$        | -  | +        | $\forall \exists$       | ł   |          | 147             |          | +        | -          | $\vdash \vdash$    | +        | +         | +                  | 1 |  |
|   |  | 48        |                   |                     | ゴ                       |              |          |          |          |            |          |                             | 98       |            |                  |         |                 |  |          | 口                       | ļ   |          | 148             |          |          |            |                    | 丁        |           |                    | 1 |  |
|   | $\Box$   | 49        | $\Box$            | $\Box$              | $\prod$                 | $\dashv$     | $\Box$   |          |          |            |          |                             | 99       | $\Box$     |                  | $\bot$  | П               | $\Box$                                       | $\bot$   | П                       | ſ   |          | 149             |          | 1_       |            |                    | $\bot$   |           | I                  |   |  |
|   | 1 1  | 50        | 1                 |                     |                         |              | 1        |          |          |            | - 1      | <u>L</u>                    | 100      |            |                  |         | 1 1             |  | - 1      | 1                       |     | <b> </b> | 150             |          |          |            | 1 1                |          | - 1       |                    | I |  |

Application No.

Index of Claims

Applicant(s)